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FORM PTO-1449
(REV. 6-89)U.S. DEPARTMENT OF COMMERCE
Patent and Trademark OfficeAttorney's Docket No.
21153-05930Serial No.
10/017,201

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Applicant
Jeffrey D. Walker et al.Filing Date
December 14, 2001Group Art Unit
3663

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
WY		3,467,906	09/16/69	Cornely et al.	330	4.3	
		3,828,231	08/06/74	Yamamoto	357	30	
		4,794,346	12/27/88	Miller	330	4.3	
		5,436,759	7/25/95	Dijaili et al.	359	333	
		5,949,807	09/07/1999	Fujimoto et al.	372	45	
		5,960,024	09/28/1999	Li et al.	372	96	
		6,044,100	03/28/2000	Hobson et al.	372	46	
✓		6,115,517	09-05-00	Shiragaki et al.	385	24	

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
WY		JP 01129483	11/14/87	Japan	H01S	3/18	No	
		JP 10190147	07/21/98	Japan	H01S	3/18	No	
✓		JP 56006492	01/23/81	Japan	H01S	3/18	No	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

WY	A	Alcatel, "Alcatel Optronics introduces a Gain-Clamped Semiconductor Optical Amplifier," <i>Press Release for Immediate Publication, OFC '98</i> , San Jose (Feb. 1998), 1 unnumbered page.
	B	Bauer, B. et al., "Gain Stabilization of a Semiconductor Optical Amplifier by Distributed Feedback," <i>IEEE Photonics Technology Letters</i> , Vol. 6, No. 2 (Feb. 1994), pages 182-185.
	C	Dorgeuille, F., et al., "1.28 Tbit/s Throughput 8x8 Optical Switch Based on Arrays of Gain-Clamped Semiconductor Optical Amplifier Gates," <i>Optical Fiber Communication Conference</i> , Vol. 4, Pages 221-223, March 2000.
	D	Dorgeuille, F., et al., H., "Fast Optical Amplifier Gate Array for WDM Routing and Switching Applications," <i>OFC '98 Technical Digest</i> , Pages 42-44, 1998.
	E	Doussiere, P. et al., "Clamped Gain Travelling Wave Semiconductor Optical Amplifier for Wavelength Division Multiplexing Applications," Maui, Hawaii, Sept. 19-23, 1994, New York, IEEE, US, Vol. Conf. 14 (9/14/94), pages 185-186.
✓	F	Evankow, Jr., J.D., et al., "Photonic Switching Modules Designed with Laser Diode Amplifiers," <i>IEEE, Journal on Selected Areas in Communications</i> , Vol. 6, No. 7, Pages 1087-1095, August 1988.

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4/04

PRIMARY EXAMINER

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FOREIGN PATENT DOCUMENTS

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							Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	G	Gee, S. et al., "High-Power Mode-Locked External Cavity Semiconductor Laser Using Inverse Bow-Tie Semiconductor Optical Amplifiers," <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , Vol. 4, No. 2, March/April 1998, pages 209-215.
	H	Jeong, G., et al., "Gain Optimization in Switches Based on Semiconductor Optical Amplifiers," <i>Journal of Lightwave Technology</i> , Vo. 13, No. 4, Pages 598-605, April 1995.
	I	Joyner, C.H. et al., "Extremely Large Band Gap Shifts for MQW Structures by Selective Epitaxy on SiO ₂ Masked Substrates," <i>IEEE Photonics Technology Letters</i> , Vol. 4, No. 9 (Sept. 1992), pp. 1006-1009.
	J	Kitamura, S., et al., "Spot-Size Converter Integrated Semiconductor Optical Amplifiers for Optical Gate Applications," <i>IEEE Journal of Quantum Electronics</i> , Vol. 35, No. 7, Pages 1067-1074, July 1999.
	K	Koyama, F., et al., "Multiple-Quantum-Well GaInAs/GaInAsP Tapered Broad-Area Amplifiers with Monolithically Integrated Waveguide Lens for High-Power Applications," <i>IEEE Photonics Technology Letters</i> (August 1993), Vol. 5, No. 8, pages 916-919.
	L	Leuthold, J., et al., "All-Optical Space Switches with Gain and Principally Ideal Extinction Ratios," <i>IEEE Journal of Quantum Electronics</i> , Vol. 34, No. 4, Pages 622-633, April 1998.
	M	McAdams, L.R. et al., "Linearizing High Performance Semiconductor Optical Amplifiers: Techniques and Performance," <i>LEOS Presentation</i> (1996), pages 363-364.
	N	Matalik, V.G. et al., "Analog performance of 1310-nm gain-clamped semiconductor optical amplifiers," <i>OFC '97 Technical Digest</i> , Thursday Morning, 11:15 AM, pages 266-267.
	O	Simon, J.C. et al., "Travelling wave semiconductor optical amplifier with reduced nonlinear distortions," <i>Electronics Letters</i> , Vol. 30, No. 1 (Jan 6, 1994), pages 49-50.
	P	Soulage, G. et al., "Clamped Gain Travelling Wave Semiconductor Optical Amplifier as a Large Dynamic Range Optical Gate," Alcatel Alsthom Recherche, route de Nozay, 91460 Marcoussis, France, undated, 4 unnumbered pages.
	Q	Tai, C., et al., "Dynamic Range and Switching Speed Limitations of an N x N Optical Packet Switch Based on Low-Gain Semiconductor Optical Amplifiers," <i>IEEE Journal of Lightwave Technology</i> , Vol. 14, No. 4, Pages 525-533, April 4, 1996.
✓	R	Tiemeijer, L.F. et al., "1310-nm DBR-Type MQW Gain-Clamped Semiconductor Optical Amplifiers with AM-CATV-Grade Linearity," <i>IEEE Photonics Technology Letters</i> , Vol. 8, No. 11 (Nov. 1996), pages 1453-1455.

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U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

~	S	Tiemeijer, L.F. et al., "High-Gain 1310 nm Semiconductor Optical Amplifier Modules with a Built-in Amplified Signal Monitor for Optical Gain Control," <i>IEEE Photonics Technology Letters</i> , Vol. 9, No. 3 (March 1997), pages 309-311.
	T	Tiemeijer, L.F. et al., "Reduced Intermodulation Distortion in 1300 nm Gain-Clamped MQW Laser Amplifiers," <i>IEEE Photonics Technology Letters</i> , Vol. 7, No. 3 (March 1995), pages 284-286.
	U	Toptchiyski, G., et al., "Time-Domain Modeling of Semiconductor Optical Amplifiers for OTDM Applications," <i>IEEE Journal of Lightwave Technology</i> , Vol. 17, No. 12, Pages 2577-2583, December 1999.
	V	van Roijen, R., et al., "Over 15 dB Gain from a Monolithically Integrated Optical Switch with an Amplifier," <i>IEEE Photonics Technology Letters</i> , Vol. 5, No. 5, Pages 529-531, May 1993.
✓	W	Walker, J.D. et al., "A Gain-Clamped, Crosstalk Free, Vertical Cavity Lasing Semiconductor Optical Amplifier for WDM Applications," summaries of the papers presented at the topical meeting, <i>Integrated Photonics Search; 1996 Technical Digest Series; Proceedings of Integrated Photonics</i> ; Boston, MA, USA, 29.04-02.05 1996, Vol. 6, 1996, pages 474-477.

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06-03-1996, Vol. 6, 1996, pages 474-477.
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